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# **Airline Safety Event Sharing System Prototypes *AVSHARE***

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# ***Introduction***

- **AvSoft/AVSIS/AVSHARE background**
- **What is AVSHARE?**
- **AVSHARE Operation**
- **Summary**



# AV SOFT

**AVSiS**  
**AVSHARE**  
**ACAS**  
**HeliCAS**  
**MiliCAS**

The screenshot shows the AVSiS software interface. The top menu bar includes File, Edit, Options, and Help. Below the menu is a toolbar with icons for Quit, New, Edit, Delete, Print, Preview, Export, Help, and AvShare. The main window is titled 'AVSiS' and displays a list of incidents under the 'Incident' tab. The list has columns for Date, Time, Reference, Event Type, Flight No, Location, Origin, and Destination. The selected incident is Reference 054, dated 29/01/99, at 05:00:44 AM, with the event type 'CABIN - SMOKE' and flight number 106. Below the list, there are tabs for Details, Description, Notes, Recommendations, Requested Reports, Other Details, Severity, and Causes. The 'Details' tab is active, showing a form for General Information with fields for Ref, Date, Time, Event, Status, Location, Accident, MOR, and ASRS.

Date	Time	Reference	Event Type	Flight No	Location	Origin	Destir
29/01/99	05:00:44 AM	054	CABIN - SMOKE	106	*OR	AAE	CZU
28/01/99	03:30:18 PM	053	UNREPORTED GRO	656	UNK		
26/01/99	07:15:28 AM	051	PROCEDURES - GRI	152	API	API	AAA
26/01/99	05:30:49 PM	052	REFUELLING PROCI	176	BGK		
20/01/99	07:00:54 AM	049	REJECTED TAKEOF	053	UNK		
20/01/99	01:50:03 PM	050	INJURY - CCM	521	BGK		
15/01/99	11:35:59 AM	048	CATERING	448	UNK	DJ	BSD
14/01/99	11:33:09 AM	047	UNREPORTED GRO	526	BSD		

Details | Description | Notes | Recommendations | Requested Reports | Other Details | Severity | Causes

General Information

Ref: 054 Accident ☐

Date: 29/01/99 Time: 05:00:44 A MOR ☐

Event: CABIN - SMOKE ASRS ☐

Status: Open Nature: PAX

Location: \*OR On Route Fix:

User: Security Disabled



# ***What is AVSHARE?***

**Secure, near real-time safety information, data sharing and messaging system**

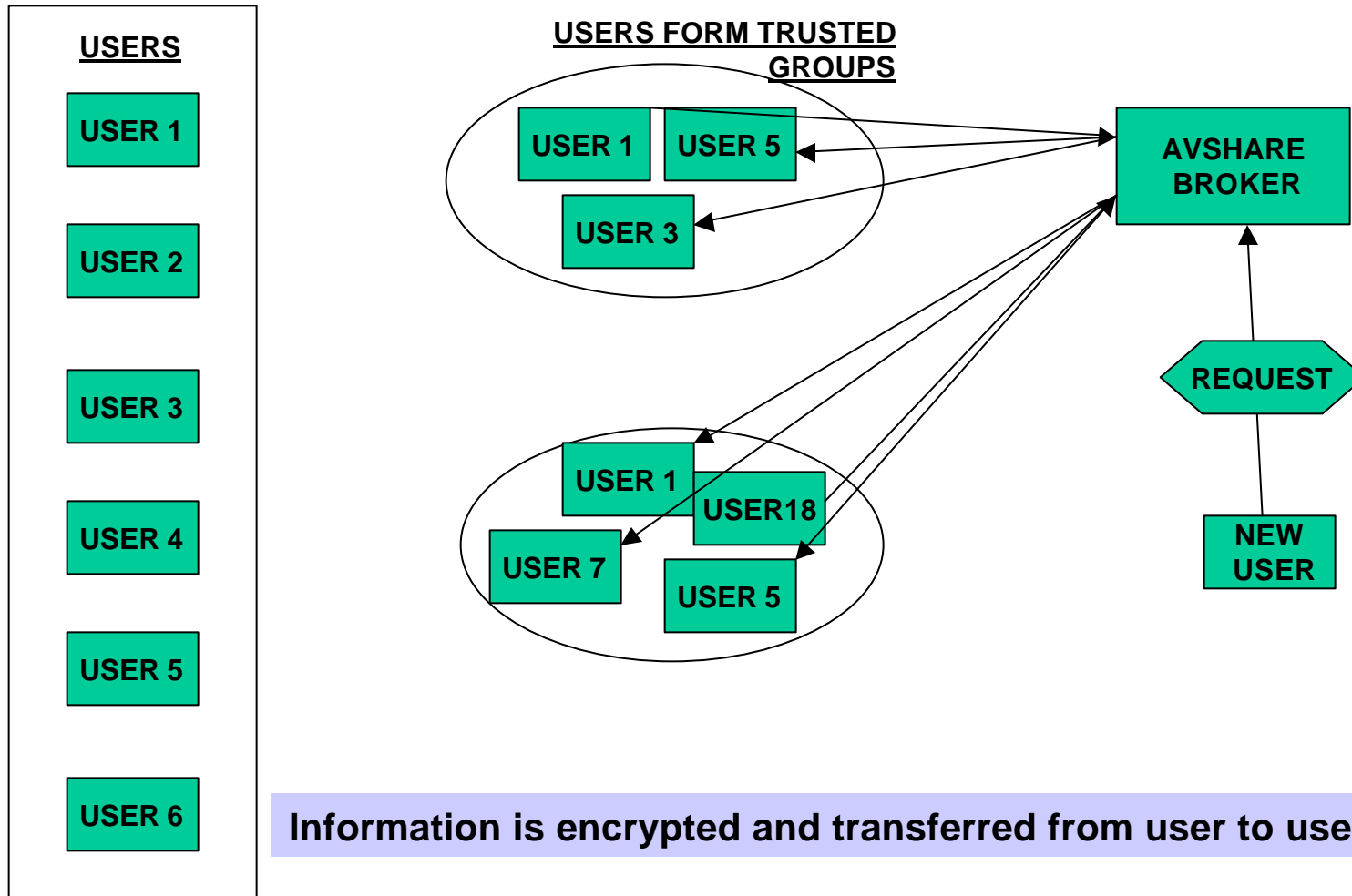


## ***AVSHARE - Features***

- **Share safety information via the internet in near real-time**
- **Data is not centralised**
- **Data can be sanitised (SSR) but need not be**
- **Share data, messages, images, documents**
- **Push or pull information**
- **Bank level security 128 bit encryption**
- **Information may be anonymous but need not be**
- **Users retain full control of who can see what**
- **Users do not need to be permanently online**



# Schematic





# ***AVSHARE - Operation***

- **Set-up Sharing Groups (who can see what)**
- **Three scenarios:**
  - Manual query of databases
  - Auto query of databases
  - Broadcasting a message/image



# ***AVSHARE - Operation***

## **Set-up Sharing Groups (who can see what)**

- Log on to AVSHARE; retrieve AVSHARE user list
- Set up groups with different levels of security,  
e.g. Trusted Airlines can see all closed events -  
SSR fields only
- Users may be added/deleted and security edited at any  
time





## ***AVSHARE - Operation***

- **Manual Query of Other Users' Data**
  - Using the AVSHARE Query Builder, design your query
  - Using the AVSHARE messaging window, type some text explaining your query
  - Link your query to the message
  - Select the recipients (e.g. all trusted airlines users)
  - Send
  - Users receive message and may manually choose to run (or not) and return response



## **Auto Query of Other Users' Data (only possible if they have given permission)**

- Using the AVSHARE Query Builder, design your query**
- Link your query to the messaging window**
- Select the recipients (e.g. all auto query trusted airlines)**
- Send**

The screenshot shows the 'QueryBuilderForm' window. It has a menu bar with 'Save Folders', 'Saves', 'Save', 'Save As', 'Load', 'Run', and 'Delete Save'. Below the menu bar is a 'Saves' dropdown set to 'SSR' and a checkbox for 'Allow one to many'. The main area is divided into three sections: 'Fields', 'Filter', and 'Sort On'. The 'Fields' section contains a list of fields: A/C Type, Area of Damage, Description, Event Date, Event Type, Location, and Phase of Flight. The 'Filter' section contains a list of fields: Event Type, Location, and Event Date. The 'Sort On' section contains a list of fields: Event Date, Ascending, and Descending. The 'Filter' section is currently active, showing a query: 'Event Type Check For Not Equal To BIRDSTRIKE - DAMAGE' and 'Location Check For Not Equal To AAB'. The 'Sort On' section is currently active, showing 'Event Date' and 'Ascending'.



## ***AVSHARE - Operation***

- **To Broadcast a Message with Data and an Image**
  - Using the AVSHARE Query Builder, retrieve the data from your own system that you wish to broadcast
  - Using the AVSHARE messaging window type your message explaining your broadcast and the records and image attached
  - Select the recipients (e.g. all Trusted Airlines)
  - Link your data to the message
  - Link your image to the message
  - Send



## ***AVSHARE - Summary***

- **Share safety information via the internet in near real time**
- **Share data, messages, images, documents**
- **Highly secure; bank level security, 128 bit encryption**
- **Information may be anonymous or declared**
- **Users retain full control of who can see what**
- **Users do not need to be permanently online**
- **Low cost**
- **Ideal for use by all airlines, from small turbo-prop operators to large alliance groups, or for internal use**